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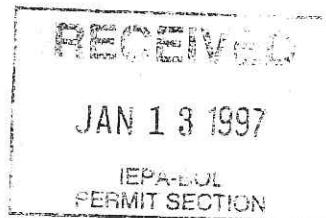
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January 10, 1997

Fed Ex Tracking No.: 277 3435 786

Mr. Edwin Bakowski, P.E.  
Manager Permit Section #3  
Illinois Environmental Protection Agency  
Bureau of Land  
Division of Land Pollution Control  
2200 Churchill Road  
Springfield, Illinois 62706



Re: Safety-Kleen Chicago Recycle Center (ILD005450697)  
Sixth Quarterly Report  
Phase II RCRA Facility Investigation  
Reporting Period: 1 October, 1996 - 31 December, 1996

Dear Mr. Bakowski:

This letter documents the activities performed as part of the Phase II RCRA Facility Investigation (RFI) for the Safety-Kleen CRC for the period of October 1 through December 31, 1996 (Sixth Quarterly Report). As specified in Item #5 in the July 7, 1995 IEPA qualified approval letter to the March 31, 1995 Phase II RCRA Facility Investigation Work Plan, the following summary includes: (a) an estimate of the percentage of the completed investigation; (b) a summary of the activities completed during this reporting period; (c) summaries of all actual or proposed changes to the Work Plan or its implementation; (d) summaries of all actual or potential problems encountered during the reporting period; (e) proposals for correcting any problems; (f) projected work anticipated for the next reporting period; and (g) other information or data as requested in writing by the Division of Land Pollution Control (DLPC). This report is submitted in compliance with the January 15, 1997 deadline for the work progress/project status quarterly report (as specified in Item #5 in the July 7, 1995 IEPA qualified approval letter).

## OVERVIEW

The Phase II field investigations began in September 1995 with the soil and groundwater extent and distribution investigation with a geoprobe device. In accordance with the Phase II Work Plan, onsite screening of groundwater samples was conducted with a gas

chromatograph (GC). Soil and groundwater samples were sent to IEA Laboratories (IEA), Schaumburg, Illinois, for VOC and SVOC analyses. The results of the soil and groundwater extent and distribution investigations were evaluated upon receipt of the laboratory data. These results and proposed recommendations for additional investigations were reported to IEPA in the November 1995 RFI Phase II Technical Memorandum for IEPA review and comment. IEPA approval was received on June 24, 1996, and additional Phase II investigations were conducted in August, 1996 in accordance with the approved Technical Memorandum and Phase II Work Plan. These investigations consisted of soil boring and monitoring well installations, and soil and groundwater sampling and analyses.

We estimate that the Phase II field investigations are approximately 90% complete and the reporting is approximately 90% complete as of December 31, 1996.

## **ACTIVITIES FOR REPORTING PERIOD**

IEPA approval of the November 1995 RFI Phase II Interim Technical Memorandum was received on June 24, 1996. Safety-Kleen completed all additional field investigations in August, 1996 (as described in the Phase II Work Plan, along with the approved additional field investigations proposed in the Interim Technical Memorandum), with the exception of completing a full year of quarterly static water level measurements, which were to be initiated after completion of all monitoring well and piezometer installations. Two of the four quarterly static water level measurements have been conducted to date. The field activities, data evaluations and reporting conducted during this reporting period are summarized as follows:

### **Collect Quarterly Static Water Level Data**

On November 14, 1996, a full round of static water level data was collected from all existing site monitoring wells and piezometers P1A and P2A, in accordance with the approved Phase II Work Plan and Technical Memorandum. This was the second of four quarterly events that were specified in the Work Plan. No static water level data could be collected from piezometers P1 and P2 because these piezometers were dry. (P1 and P2 were installed at the water table and if the water table falls below an elevation of approximately 591 feet in the vicinity of P1 and 589 feet in the vicinity of P2, then the water table will be below the bottoms of the screens in P1 and P2, respectively. This appears to be the explanation for why P1 and P2 were dry in November, 1996.)

### **Data Evaluation and Reporting**

The Fifth Quarterly Report, dated October 7, 1996, was written and submitted to IEPA in accordance with the October 15, 1996 deadline for the work progress/project status quarterly report (as specified in Item #5 in the July 7, 1995 IEPA qualified approval letter).

Data evaluations and reporting are nearly complete for the data generated during the additional Phase II investigations. The Phase II RFI report will be submitted to IEPA on or before February 15, 1997, as stipulated in Item #1 in the June 17, 1996 IEPA approval letter to the November, 1995 Tech Memo. The soil and groundwater analytical data were summarized and were included as Attachments A and B, respectively, to the October 7, 1996 Fifth Quarterly Report. The laboratory reports for the soil and groundwater data also were included with Attachments A and B, respectively, to the October 7, 1996 Fifth Quarterly Report. Enclosed is a revised version of the soil summary table from Attachment A: the original table inadvertently used values for the Preliminary Soil Target Levels (PSTLs) from the September 30, 1994 IEPA approval letter to the Phase I Report, rather than the revised PSTLs listed in the July 7, 1995 IEPA approval letter to the Tech Memo. The attached corrected table highlights those 1996 soil concentrations that were detected at or above PSTLs listed in the July 7, 1995 IEPA approval letter.

#### **PROBLEMS/SOLUTIONS AND ACTUAL OR PROPOSED CHANGES TO WORK PLAN**

In December, 1996, IEPA was notified by telephone and in writing that five SVOCs were not included in the list of analytes for the 1996 groundwater analyses. These compounds were pyridine, 3-picoline, N,N-dimethylacetamide, acetophenone and 1-methyl-2-pyrrolidinone. LTI notified IEPA by phone and in correspondence dated December 20, 1996, of the corrective actions that were taken to address this oversight. LTI received verbal approval of the corrective measures in a January 7, 1997, telephone conversation with Victoria Broomhead of IEPA.

#### **ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD**

##### **Collect Quarterly Static Water Level Data**

As stipulated in the Phase II Work Plan, after installation of the two piezometers and the four additional proposed monitoring wells, static water level data will be collected from all site wells quarterly for one year. The first two quarterly static water level events were conducted on August 14 and November 14, 1996, the third quarterly static water level event will be conducted in February, 1997, and the fourth and final event will be conducted in May, 1997.

**Data Evaluation and Reporting**

Data evaluations will be finalized for the data generated during the additional Phase II investigations. The Phase II RFI Report will be completed and submitted to IEPA by February 15, 1997, in accordance with the revised schedule provided in the June 17, 1996 IEPA approval letter to the Technical Memorandum. The laboratory and professional certifications will be provided with the Phase II Report.

If you have any questions or comments about this report, please contact either me at 847-468-2216 or Cathy Whiting of LTI at 313-332-1200.

Sincerely,  
Safety-Kleen Corp.

*Anne M. Lunt/mm*

Anne M. Lunt  
Senior Project Manager-Remediation

Enclosure

cc:     Keith Marcott, Safety-Kleen Corp.  
          Alfred Aghaiepour, Safety-Kleen CRC  
          David J. Reynolds, City of Chicago  
          Cathy Whiting, LTI

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**ATTACHMENT A: AUGUST, 1996 SOIL SAMPLING RESULTS  
SAFETY-KLEEN CHICAGO RECYCLE CENTER**

**SOIL ANALYTICAL RESULTS (August, 1996)**  
SAFETY-KLEEN CHICAGO RECYCLE CENTER, CHICAGO, IL

[1996] 1st Sheet provided by IEA Schamburg || August 1996

For example, the first two street processes by which the city can respond to detected problems are:

Practical Quantitation Limit

Quantitation Limit: sample specific and equal to the PQL multiplied by the dilution factor.

Flag Data qualifier

U This compound was not detected in the sample above the PQL

UD This compound was not detected above the elevated  $\beta$ CD in this diluted analysis

Preliminary Soil Target Level, as provided by CCA, /, 1993 as per paragraph 19 exceed 21,000 t